



(19)

(11) Publication number:

0

Generated Document.

PATENT ABSTRACTS OF JAPAN

(21) Application number: 05145823

(51) Intl. Cl.: B01D 63/02 B01D 65/02

(22) Application date: 17.06.93

(30) Priority: (43) Date of application publication: 06.01.95 (84) Designated contracting states:	(71) Applicant: TOSHIBA CORP (72) Inventor: ITO KIYOSHI (74) Representative:
---	--

**(54) HOLLOW-FIBER
MEMBRANE FILTER AND
ITS CLEANING METHOD**

(57) Abstract:

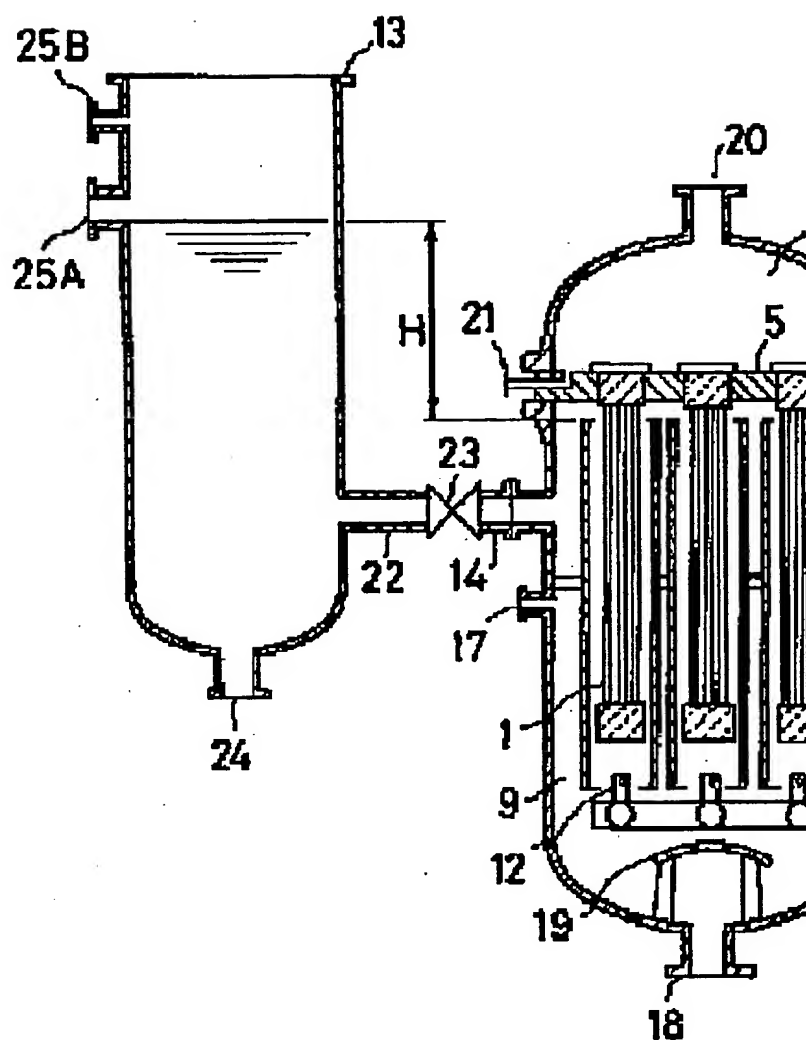
PURPOSE: To obtain a hollow-fiber membrane filter with the differential pressure recovery rate enhanced and the service life prolonged and capable of filtering even a difficult-to-filtrate water.

CONSTITUTION: A filter 11 is divided by a tube plate 5 into a treated water section 6 and a filtration water section 7. A hollow-fiber membrane module 1 formed by bundling many hollow-fiber membranes is suspended from the tube plate 5. The treated water section 6 is divided by a partition plate 10 into an upper section 8 and a lower section 9. A cylinder 3 for protecting the module 1 is fixed to the partition plate 10. A bubble injection nozzle 12 is provided below the cylinder 3. A head tank 13 communicating with the upper section 8 and having a head

BEST AVAILABLE COPY

difference H from the upper end of the cylinder 3 to about 1/2 of the length of the membrane 1 is furnished.

COPYRIGHT: (C)1995,JPO



BEST AVAILABLE COPY